What is claimed is:

1. A method, comprising:

detecting occurrences of at least one trigger event; and

determining the number of detected trigger event occurrences during a predefined time interval to establish thereby a rate of trigger event occurrences.

2. The method of claim 1, wherein said rate of trigger event occurrences is used to generate an alphanumeric value for display on a display device.

3. The method of claim 1, wherein said rate of trigger event occurrences is used to generate waveform imagery for display on a display device.

4. The method of claim 1, wherein said trigger event comprises at least one of a glitch condition, a pulse width violation condition, a slew-rate violation condition, a runt condition, a time-qualified runt condition, an abnormal pulse condition, a time-qualified abnormal pulse condition, a timeout condition, a window criteria condition, a set-up and hold violation, a logic pattern, a logic state and an edge condition.

5. The method of claim 1, further comprising:

associating indicia of at least some of said trigger event occurrences of at least one trigger condition with a respective timestamp.

6 The method of claim 5, wherein each of said trigger events is associated with a time stamp.

7. The method of claim 1, further comprising:

associating indicia of at least some of said trigger event occurrences of at least one trigger condition with a respective timestamp; and

processing said time stamped indicia using a fast Fourier transform (FFT) to provide thereby a spectral profile of occurrences of said trigger event.

8. The method of claim 1, further comprising:

asserting a trigger condition in response to said rate exceeding a threshold level.

9. The method of claim 4, further comprising:

asserting a trigger condition in response to each of at least two of said trigger events occurring.

10. The method of claim 8, further comprising:

asserting a trigger condition in response to a spectral profile correlating to a predefined spectral profile within a threshold level of accuracy.

11. Apparatus, comprising:

an advanced trigger module, for generating at least a first advanced trigger event indicator in response to at least one input signal;

an event counter module, for counting the number of said at least first trigger events occurring during a predefined time period to establish thereby a rate of occurrence of said at least first event.

12. The apparatus of claim 11, further comprising:

a multiplexer, for receiving from said advanced trigger module each of a plurality of trigger condition indicative signals and selecting there from at least one of said trigger condition indicative signals for further processing by said event counter module.

13. The apparatus of claim 11, further comprising:

a time stamp module, for associating at least some of said trigger event occurrences of at least one trigger condition with a respective time stamp for subsequent processing by said display processor.

14. The apparatus of claim 13, wherein each of said trigger events is associated with a time stamp.

15. The apparatus of claim 11, further comprising:

a time stamp module, for associating at least some of said trigger event occurrences of at least one trigger condition with a respective time stamp for subsequent processing by a fast Fourier transform(FFT) module;

said FFT module for processing at least one time stamp associated trigger occurrence signal to provide thereby a spectral profile of occurrences of said trigger event.

16. The apparatus of claim 11, wherein said trigger event comprises at least one of a glitch condition, a pulse width violation condition, a slew-rate violation condition, a runt condition, a time-qualified runt condition, an abnormal pulse condition, a time-qualified abnormal pulse condition, a timeout condition, a window criteria condition, a set-up and hold violation, a logic pattern, a logic state and an edge condition.

17. The apparatus of claim 11, further comprising:

an auxiliary trigger module, for asserting a trigger condition in response to said rate of occurrence of said at least first event exceeding a threshold level.

18. The apparatus of claim 15, further comprising:

an auxiliary trigger module, for asserting a trigger condition in response to a spectral profile correlating to a predefined spectral profile within a threshold level of accuracy.